L2/06-269

ISO/IEC JTC 1/SC 2/WG 2

PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISO/IEC 10646.¹.

Please fill all the sections A, B and C below.

Please read Principles and Procedures Document (P & P) from http://www.dkuug.dk/JTC1/SC2/WG2/docs/principles.html. for guidelines and details before filling this form.

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Please ensure you are using the latest Form from _http://www.dkuug.dk/JTC1/SC2/WG2/docs/summaryform.html .

See also _http://www.dkuug.dk/JTC1/SC2/WG2/docs/roadmaps.html _ for latest Roadmaps.

A. Administrative	
1. Title: Proposal to Add Additional Ancient Roman Characters	
2. Requester's name: Davud J. Perry 3. Requester type (Member body/Liaison/Individual contribution): Individual Contribution	
3. Requester type (Member body/Liaison/Individual contribution): Individual Contribution	ribution
4. Submission date: August 1, 20)06
5. Requester's reference (if applicable):	
6. Choose one of the following:	
This is a complete proposal:	Yes
(or) More information will be provided later:	
B. Technical – General	
1. Choose one of the following:	
a. This proposal is for a new script (set of characters):	
Proposed name of script:	
	Yes
b. The proposal is for addition of character(s) to an existing block: Name of the existing block: Latin Extended-C, Number Forms, Supplement	ary Punctuation
2. Number of characters in proposal:	15
	1,0
3. Proposed category (select one from below - see section 2.2 of P&P document):	1 .: \
A-Contemporary B.1-Specialized (small collection) B.2-Specialized (large col	lection)
C-Major extinct X D-Attested extinct E-Minor extinct	
F-Archaic Hieroglyphic or Ideographic G-Obscure or questionable usage s	symbols
4. Proposed Level of Implementation (1, 2 or 3) (see Annex K in P&P document):	3
Is a rationale provided for the choice?	No
If Yes, reference:	
5. Is a repertoire including character names provided?	Yes
a. If YES, are the names in accordance with the "character naming guidelines"	
in Annex L of P&P document?	Yes
b. Are the character shapes attached in a legible form suitable for review?	Yes
6. Who will provide the appropriate computerized font (ordered preference: True Type, or PostScript form	
publishing the standard? <u>David Perry</u> If available now, identify source(s) for the font (include address, e-mail, ftp-site, etc.) and indicate t	ha taala
	lie toois
7. References:	***
a. Are references (to other character sets, dictionaries, descriptive texts etc.) provided?	Yes
b. Are published examples of use (such as samples from newspapers, magazines, or other sources)	
of proposed characters attached? Yes	
8. Special encoding issues:	
Does the proposal address other aspects of character data processing (if applicable) such as input,	
presentation, sorting, searching, indexing, transliteration etc. (if yes please enclose information)?	No
9. Additional Information:	
Submitters are invited to provide any additional information about Properties of the proposed Character(s)	or Script that will assist
in correct understanding of and correct linguistic processing of the proposed character(s) or script. Examp	
are: Casing information, Numeric information, Currency information, Display behaviour information such	
etc., Combining behaviour, Spacing behaviour, Directional behaviour, Default Collation behaviour, releva	
contexts, Compatibility equivalence and other Unicode normalization related information. See the Unicod	
http://www.unicode.org for such information on other scripts. Also see http://www.unicode.org/Public/V	
and associated Unicode Technical Reports for information needed for consideration by the Unicode Techn	

inclusion in the Unicode Standard.

[.]¹. Form number: N3002-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10)

C. Technical - Justification

16 YES explain 2. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)? 16 YES, with whom? 17 YES, with whom? 17 YES, available relevant documents: 3. Information on the user community for the proposed characters (for example: size, demographies, information technology use, or publishing use) is included? Reference: 4. The context of use for the proposed characters (type of use; common or rare) Reference: 6. Are the proposed characters in current use by the user community? 16 YES, where? Reference: 7. Scholarly publications (see examples in proposable) 17 YES, is a rationale provided? 18 YES, is a rationale provided? 19 Yes 19 If YES, is a rationale provided? 19 YES, reference: 10. Can any of the proposed characters be considered a presentation form of an existing characters or characters be encoded using a composed character sequence? 16 YES, is a rationale for its inclusion provided? 16 YES, is a rationale for its inclusion provided? 16 YES, is a rationale for its inclusion provided? 17 YES, is a rationale for its inclusion provided? 18 YES, is a rationale for its inclusion provided? 19 Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters? 18 YES, is a rationale for its inclusion provided? 16 YES, is a rationale for its inclusion provided? 17 YES, reference: 19. Can any of the proposed characters be encoded using a composed character sequence of either existing characters or other proposed characters? 19 Yes 11 YES, is a rationale for its inclusion provided? 16 YES, is a rationale for its inclusion provided? 16 YES, is a rationale for its inclusion provided? 16 YES, is a rationale for its inclusion provided? 17 YES, reference: 19 Desembly the proposed characters with any special properties such as control function or similar semantics? 19 Yes is a rationale for such use provided? 11 YES, reference: 20 Desembly the proposal	1. Has this proposal for addition of character(s) been submitted before?	No
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Proposal to Add Additional Ancient Roman Characters to UCS

David J. Perry

Introduction

Ancient Roman texts used a variety of special letters and signs. These characters, many of which are currently not in the Universal Character Set, are found in literary texts as well as in inscriptions and are needed to publish texts containing them properly.

New Characters Proposed

The following characters are proposed for inclusion in the Universal Character Set.

Reversed Letters for Feminine Forms

The Romans used reversed or inverted letters to represent feminine forms, particularly when there was a similar masculine form that was represented by a regular letter. For example, the *praenomen* (personal name) Gaius is abbreviated by the letter C; the feminine form Gaia is shown with a reversed shape \Im (already encoded as U+2183). The following need to be added.

- The reversed F stands for *filia* (daughter) or *femina* (woman); Figure 1 and Figure 2.
- The reversed P stands for *puella* (girl); Figure 1 and Figure 2.
- M An inverted M or rotated M ≤ stands for *mulier* (woman); Figure 3 and Figure 4. The UCS contains the character U+019C LATIN CAPITAL LETTER TURNED M, used in writing the Zhuang language of southern China (lowercase is 026F LATIN SMALL LETTER TURNED M). The letter used in Zhuang, however, is simply an enlarged form of the turned minuscule U, rather than the traditional Latin capital M. This fact, and the need to accommodate the ancient glyph variant ≤, makes it desirable to encode a new character.

Other Special Letterforms

The I longa, an extra-tall I, was introduced in the early first century BCE to represent the phoneme /i:/ as opposed to /i/. It is one of the most common features of Latin inscriptions and editors prefer to show it in its original form whenever possible. In Figure 3, Figure 5, Figure 6, Figure 7, and Figure 9, all of the extra-tall Is represent phonetically long vowels,

² The earliest Roman alphabet used the letter C to stand for both /k/ and /g/; later on the letter G was created for the latter sound, but for reasons of social conservatism C remained the abbreviation for Gaius, and Cn for Gnaeus.

while none of the regular height Is are long, so the contrast is very clear.³ This is true also in Figure 8 with one exception, the word IN on line 16, whose vowel is short. On occasion stonecutters used the long I where it does not seem justified. Whether this represents variant pronunciation (Latin was spoken over a long period and over a wide area, so variations certainly arose), ignorance, haste, or some other reason is not clear.

Manius is shown by the character AV (Figure 8, Figure 10, Figure 11, and Figure 12), an archaic form of the letter M that was preserved specifically to abbreviate this *praenomen*. The standard M shape was used for the more common *praenomen* Marcus, seen in Figure 10. The archaic M needs to be encoded separately, since if it is treated as a glyph variant of M it could be confused with the abbreviation for Marcus. Modern printers sometimes render the abbreviation as M' but this is character substitution, not a form known to the ancient Romans.

These five characters should have the character property Lu. Epigraphers do not use these in lowercase. However, for reasons of case pairing stability, it may be desirable to encode lowercase equivalents for the first four; since they are adaptations of common Latin letters, they may have, or may acquire, uses beyond the needs of epigraphers. Lowercase forms for the first four are included in the summary table below (page 7). The archaic form of M should not have a lowercase form, however. It is similar to the Old Italic letters, which are only in uppercase. Also, it has only one use, to abbreviate a *praenomen*, and so will always be uppercase as a name abbreviation. It is exceedingly unlikely that this letter will ever be used outside the domain of epigraphy.

These letters would logically be placed in the Latin Extended C range.

Roman Numerals

The character C is sometimes found as the Roman numeral six (see Figure 13, Figure 14, Figure 15 and Figure 16). It is common from the second century CE onwards, especially in Christian inscriptions. The origin of this character is uncertain. Cagnat (1898) describes this as a ligature of V and I; Gordon in his *Introduction* (1983) cites Cagnat and calls C a "rather strange" form (p. 44, reproduced in Figure 14). Regarding this character as a V-I ligature seems palaeographically suspect to some, who believe that that this form of six is taken from the Greek Stigma, which has a numerical value of six. The shape C is similar to the shapes found in ancient Greek for the numeral six (not so similar to the shape of Stigma C shown in the Unicode charts). The fact that this form of six is found at first in Christian inscriptions—Christianity being an import from the Greek-speaking eastern half of the Roman empire—may strengthen the identification with Stigma. Gordon in his 1965

³ Introductory Latin textbooks usually print the final i of *mihi* (last line of Figure 6) as short; however, it was sometimes pronounced long, as many examples from poetry make clear.

⁴ I omit here the complex history of this number, which started out as Digamma, acquired cursive and uncial forms, and was eventually conflated with the Sigma-Tau ligature; see Nick Nicholas's web page for complete discussion: http://ptolemy.tlg.uci.edu/~opoudjis/unicode/numerals.html#stigma.

Album mentions that Wilhelm Larfeld suggested Stigma as the source of G (*Griechische Epigraphik*, 1914) but does not give his own opinion on the issue. Spawforth and Reynolds, in the article "Numbers, Roman" in the *Oxford Classical Dictionary*, say that the origin of G is "at first sight obscure" but give no explanation of where they believe it comes from. The character survived into the early Middle Ages. Cappelli (Figure 16) gives examples of G = 6 and also of G = 7, G = 8, and G = 9, all dated to the 8th century.

This character should be encoded separately from U+03DA GREEK LETTER STIGMA for several reasons. First is the uncertainty about whether it really is a borrowed Stigma. Second is its shape, which although similar is not identical to Stigma (the Roman number has a rounder, more C-shaped bowl). Finally, the fact that C was used for 600 years or more, not only by itself, but also as a part of other Roman numerals, shows that was thoroughly Latinized.

- Most people today equate Roman numerals with Latin capital letters, but they were not letters to begin with. The Romans originally had distinct numeric symbols which, over the course of time, were conflated with letters of the alphabet. This conflation took a long time to complete. The Roman numeral fifty originally had the forms ↓, ↓, and ⊥ (Figure 17 and Figure 15) which were used into the first century BCE, after which they were assimilated to the letter L. Epigraphers want to have a way to distinguish reliably between L and the earlier forms; furthermore, the three earlier shapes are not appropriate variants for the letter L in any context except specialist use of Roman numerals. For these reasons the new character is proposed.
- D, (D) These are the Roman numerals 50,000 and 100,000. If the note in TUS found with U+2183 "used in combination with C and I to form larger numbers" is followed, 50,000 would be represented as IOOO (four separate characters) and 100,000 as CCCIOOO. This is indeed an accurate visual representation of one variant of these numerals (see "13th stylization" in Figure 20). There are two issues here. First, the note in TUS suggests that the process of adding reversed Cs and Cs to a central I can go on to even higher numbers. Because this method of indicating large numbers is awkward, the Romans developed alternatives: a bar placed over a numeral indicated multiplication by 1,000, and a bar plus vertical lines on either side of a numeral indicated multiplication by 100,000. (See Figure 15 and the lower left of Figure 20.) So numerals higher than 100,000 shown in the CIO style do not occur. Second, the numbers 1,000, 5,000, 10,000, 50,000 and 100,000 had many glyph variants (Figure 15, Figure 18, Figure 19, and Figure 20). Smart fonts designed to support epigraphy need to have single characters for 50,000 and 100,000 which can be used as a base for stylistic alternates, as we already have for 1,000, 5,000 and 10,000.

These four characters should have the character property Nl. They would logically be placed in the Number Forms range.

Other Characters

The centurial sign should have the property So. It would logically be placed in the Miscellaneous Symbols range. The form > is suggested as the reference glyph because it is one of the more common variants (the 3-shapes and Z-shapes are much rarer), but is not apt to be confused with existing characters such as the numeral seven.

Roman inscriptions and coins from the imperial period make use of a palm branch character (Latin *palmula* "little palm" or *ramulus* "little branch"). Sometimes the ramulus is used like an interpunct⁵ (see Figure 25), and sometimes to separate one inscription from another, as in Figure 27. Ramuli were also used together with interpuncts (see Figure 26 and Figure 27). Because the palm branch is found together with the interpunct it needs to be encoded separately.

Because the palm branch is used to separate words or sections of text, it should be regarded as a punctuation character rather than as a symbol. It should have the property Po and the line breaking property BA (break after) so that applications can break lines after it if needed. In this regard it is similar to other word separator characters encoded for ancient scripts, such as the Runic punctuation (U+16EB–16ED). See the discussion in UAX#14 Line Breaking Properties, under the "Word Separators" section. It would logically be placed in the Supplementary Punctuation range.

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⁵ An interpunct is a word separator that can take many forms: triangle, wedge, x-shape, dot, slanted or curved line, etc. The Romans originally wrote with no separation between words, but beginning in the late Republic inscriptions often employ interpuncts (not spaces!) to distinguish individual words. See Figure 9, Figure 28 and Figure 29 for examples of interpuncts in various shapes. The UCS already contains characters such as U+00B7 MIDDLE DOT that can be used to encode the interpunct.

Reference Glyphs and Suggested Names

The symbols may be grouped as follows.

Alternate Letterforms

- F LATIN CAPITAL LETTER REVERSED F
- 1 LATIN SMALL LETTER REVERSED F
- 9 LATIN CAPITAL LETTER REVERSED P
- q LATIN SMALL LETTER REVERSED P
- W LATIN CAPITAL LETTER INVERTED M
- **W** LATIN SMALL LETTER INVERTED M
- I LATIN CAPITAL LETTER I LONGA
- I LATIN SMALL LETTER I LONGA
- W LATIN CAPITAL LETTER ARCHAIC M

Roman Numerals

- G ROMAN NUMERAL SIX LATE FORM
- **↓** ROMAN NUMERAL FIFTY EARLY FORM
- D ROMAN NUMERAL FIFTY THOUSAND
- ® ROMAN NUMERAL ONE HUNDRED THOUSAND

Other Characters

- > ROMAN CENTURIAL SIGN
- **₱** PALM BRANCH

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Acknowledgments

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Figures

N. B. — Les personnages d'ordre sénatorial portent le titre de vir clarissimus (V·C), en grec ἀνὴρ λαμπρότατος ου συγκλητικός (C·M·V = clarissimae memoriae vir, après sa mort); $c \cdot R = clarissimus puer$; C·I = clarissimus juvenis; C·F ou C·I = clarissima femina, (C·I) clarissima puella)¹.

Figure 1. From Cagnat 1898, p. 89, showing reversed F and P.

Per indicare il femminile di alcuni sostantivi e nomi, si capo sigla:

C Gaius
P puer
F filius

C Gaius
P puella
F femina

Figure 2. From Calabi Limentani, p. 132. Apparently the printer did not have reversed letters to match the typeface used in the rest of the book.

C. I. L., XII, 4364:

M. MAECIO
M. F. OCEANO
NVMISIAE (W). L
ARIVATAE

Figure 3. From Cagnat 1898, p. 334. The third and fourth lines read *Numisiae m(ulieris) l(ibertae) Privatae*, meaning "To Numisia Privata, ex-slave of a woman," using the reversed M for *mulier* and the I longa.

0,040

D(is) M(anibus) | Salaria | \geq (nulieris) lib(ertae) | Aphrodites | T. Vennonius | Restitutes | matri | v(ivae) f(ecit)

Figure 4. From Hübner, no. 358, with a rotated M for *mulier*.

IMP · CAES DIVI TRAIANI

PART · F · DIVI · NERVAE · N

TRAIANVS · HADRIANVS · AVG

PONT · MAX · TRIB · POT · XX · COS · III · P · P a. 136

5 I · S · M · R · STATVAM · EX · DONIS AVREIS

ET · ARG · VETVSTATE · CORRVP(IS)

FIERI ET · CONSECRARI IVSSIT

EX · AVRI P III - ET · ARG · P · CCVI =

Figure 5. From *Corpus Inscriptionum Latinarum* vol. 14, no. 2088; note I longae.

VIVA · OFFICIVM · TIBI · FACERE NON

VERVNT · AD SVMMVM · SVPREMVM

DECORARVNT · VT MERVISTI · CASTA MATER

SSA·VTRORVM · ANNAES ET CISSI · AMANTIS

SITA·SVNT · CISSVS (VIVIT·SED·QVAM

M·CVPIT · AD · SVAM · AMANTISSVMAM

IRE

NIS·POTVIT · IVCVNDA·VIDERI

NIT·MORTIS·VOS M(HI PESTITV)

Figure 6. From *Corpus Inscriptionum Latinarum* vol. 6, no. 11669, with I longae.

a) Tessères militaires. — Elles portent un nom de soldat avec la désignation du corps auquel il appartient.

Ex.: C. I. L., VI, 2541 (lame de bronze inscrite sur les deux faces):

tI CLAVIII PRISCi MIL COH IIII PI 7 PATERNi

[T]i. Claudi(i) Prisc[i], mil(itis) coh(ortis) IIII pr(aetoria)e, c(enturia)

Patern[i].

Figure 7. From Cagnat 1898, p. 334 showing the 7-shaped centural sign and the I longa.

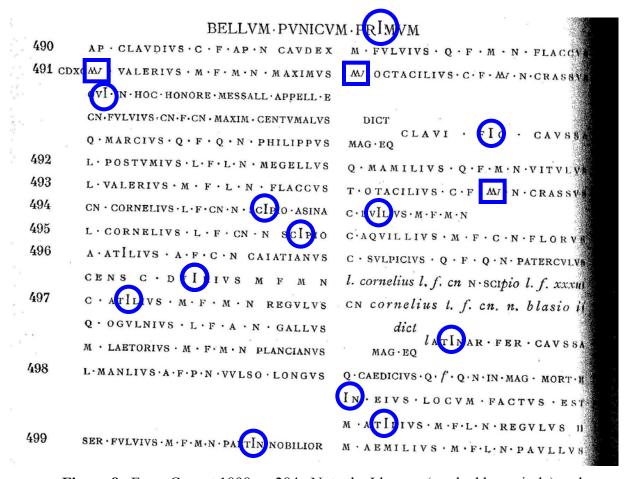


Figure 8. From Cagnat 1898, p. 284. Note the I longae (marked by a circle) and the abbrviation for Manius (marked by a square)

CALAMVS TI-CLAVDIÎ-CAESARIS AVGVSTÎ-CERMANICÎ

Figure 9. From Hübner, no. 98, with triangular interpuncts and I longae.



Figure 10. From Hübner, no. 2. Transcription: $MERQVRIO \mid M(anius) \land RVSTIVS \land M(arci) \land F(ilius) \land M(anii) \land N(epos) \mid DVVM \land VIR \land DAT$. "Manius Rustius, son of Marcus, grandson of Manius, duumvir⁶, gives [this] to Mercury." Two examples of the abbreviation for Manius, contrasted with the regular M to abbreviate Marcus, and triangular interpuncts.

7º Au lieu de M, abréviation de Manius, on trouve dans les éditions des auteurs et même dans certains ouvrages d'épigraphie un M suivi d'un apostrophe, M'. C'est là un caractère employé pour faciliter l'impression; ce n'est pas une sigle usitée sur les monuments. Nous avons parlé plus haut de cette forme archaïque du M.

Figure 11. From Cagnat 1898, p. 40, showing archaic M for Manius.

two of them could be indicated by a single initial letter, the exceptions being GN for "Gnaeus" and M for "Manius," simple C and M being already preempted for "Gaius" and "Marcus." This system of ex-

Figure 12. From Gordon 1982, p. 15, showing abbreviation for Manius.

⁶ A duumvir was one of two chief officials in a Roman town, sort of co-mayors.

Cursive forms of the figures are usually recognizable without undue difficulty (cf. H=30), though G=6, dommon especially in Christian texts, is at first sight obscure.

Figure 13. From Hornblower and Spawforth, p. 1053, showing late form of numeral 6.

Whereas our so-called Arabic numerals are ten in number (0-9), the Roman numerals number nine: I = 1 (one), V = 5, V = 10, V = 50, V = 10, V =

Figure 14. From Gordon 1982, p. 44, with late form of numeral 6.

l)	1	$\Phi, M, \varpi, \backsim$	⋈ 1000
lpin, 1V	") 4	ထထ	2.000
juu. V	5	∞ p	4000
$\lim_{\zeta \to 0} (\zeta, \gamma)$	6	שו, א, עו, פ	5.000
Villi, ix	9	本、他、一个,不	1 (40,000
×	10	(b), nhi	{10.000
XIIX	18	XIICCI	12,201
XXIIX	2/5	DD. W. D	50.000
, ۱, ۵, ۱	50	a , b	100.000
XXXXXX	60	[X]"	1000.000
өс	100	टि।	10.000.000
DB j		[D] :	50.000.000
	500	M 10	0000000

Figure 15. From Ricci 1898, Plate IV with late 6, early 50, and variant forms of 50,000 and 100,000; also variants of 5,000/10,000 and bars for multiplication.

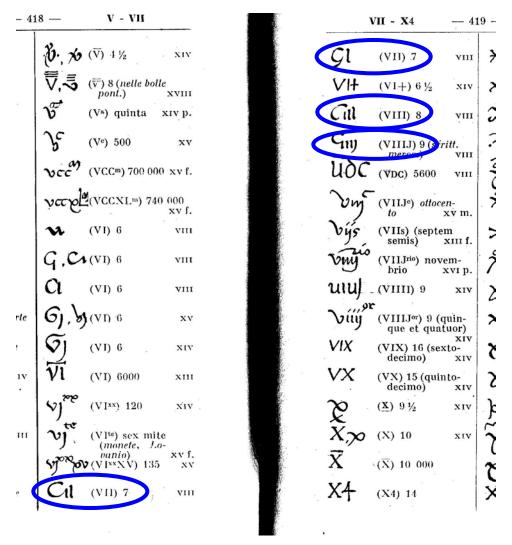


Figure 16. Examples of the late form of six, both alone and used in combination to form other Roman numerals, dated to the 8th century, from Cappelli p. 418–419. The Roman numerals in the right-hand column show the century.

numbers, Roman The numbers are based on seven signs: I = 1, V = 5, X = 10, L = 50 (formerly, before the 1st cent. B., \downarrow), $C = 100, \ \theta = 500, \ \infty$ (or a recognizable variant) = 1,000 (M was not used as a figure, only as an abbreviation of the words mille, milia). The system's origins are debated. Modern scholarship rejects the

Figure 17. From Hornblower and Spawforth, page 1053; note early form of 50.

5,000, par suite, se représentait par D. W. h., h.;

Figure 18. From Cagnat 1898, p. 31, with variants of 5,000 and 10,000.

100,000 s'indiquait par le signe (100,000);
50,000, par suite, était noté (100,000);

Figure 19. From Cagnat 1989, p. 32.

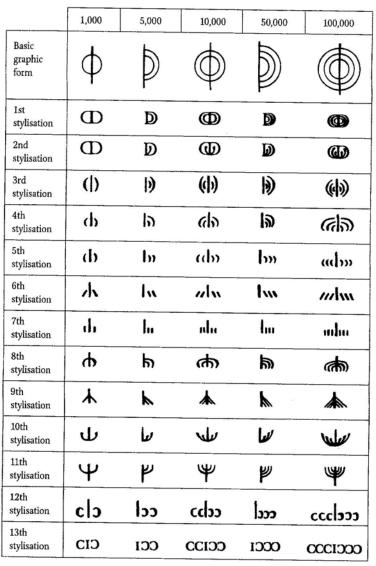


FIG. 16.62.

v	=	5,000	=	5 × 1,000	CIL, VIII, 1577
x	=	10,000	=	10×1,000	CIL, VIII, 98
LXXXIII	=	83,000	=	83×1,000	CIL, I, 1757

Examples from Latin inscriptions of which the oldest date from the end of the Republic

FIG. 16.63.

itti daceloocu	IIIIDCCCLXXII	4,872
Vdlovus	V DLXVIII	5,568
Vdccccxv1	VDCCCCXVI	5,916
redocus	VICCLXIIII	6,264

Examples from a Latin astronomical manuscript of the 11th or 12th centuries CE (Bibliothèque nationale, Paris, Ms. lat. 14069, folio 19)

FIG. 16.64.

Figure 20. From Ifrah 2000, p. 198.

), \mathcal{F} , $\{$, $\{$, $\}$, centurio, centuria $\{$, $\{$, $\}$

Figure 21. From Cagnat 1898, p. 445; various forms of centurial sign.

409 Tituli militares. 2017 Q. Retulus Q. f. | Felix sp. Amili | militat an. VIII, vixit an. XXVI, | h. s., loc. publ.2 Brundisii (IX 40 vidit Hirschfeld). — 1) Speculator centuria Aemili. — 2) Nota militem sepultum loco publico a Brundisinis dato. C. Fabius | C. f. Ser. | Crispus | Carthag. | specul. | coh. VI 7 Fligeri², | mil. an. XIII³, | vix. an. XXII³, | heres | ex volunt. p. Redae (VI 2607 bis descripta saec. XV. XVI). - 1) Intellegitur Carthago nova Hispaniae. - 2) Nomen centurionis fortasse non recte exceptum (Flageri alterum apographum). - 3) Alter uter ex numeris non recte exceptus. 2019 d. m. | M. Purula Diza m[i]l. co[h.] V | pr. p. v. s stiani, q. v. | a. XXX mil. a. XII, f. Aur. Ian uarius commani.' | e Florentiae (VI 2586 vidit Bormann). — 1) Commanipulus. 2020 L. Veratio C. f. Qui. Aro Foro Iuli , veterano, decarioni quaestori Anti, | L. Munative Sakin s 7 specul.2, | C. Mamillius Yaus 7 col VII pr., | N. Naevius Ruf s 7 coh. Wig., | L. Veratius Certu heredes. | In fronte p. XX, in agro p. XX. Prope Antium rep. a. 4877 (X 6674, vidi). - 1) Quodnam Forum Iuli intellegatur, incertum est. - 2) Nota ex quattuor centurionibus primo loco recenseri centurionem speculatorum, secundo centurionem cohortis praetoriae, tertio centurionem vigilum, ultimo centurionem legionis.

Figure 22. From Dessau 1892, p. 409. Two different forms of the centurial sign.

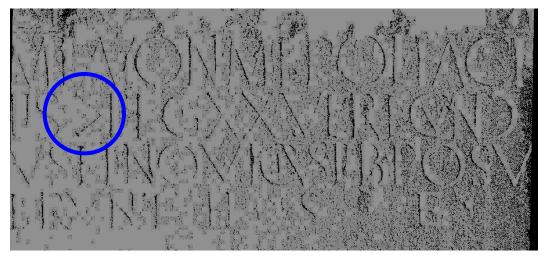


Figure 23. From Keppie 1991, p. 82; centurial sign on a stone.

M(arcus) Favoni(us) M(arci) f(ilius) Pol(lia) Faci | lis 7 leg(ionis) XX Verecund | us et Novicius lib(erti) posu | erunt h(ic) s(itus) e(st). Marcus Favonius Facilis, son of Marcus, of the voting-tribe Pollia, centurion of legion XX. The freedmen Verecundus and Novicius erected (it). He lies here.

Figure 24. From Keppie 1991, p. 81. Figure 24 is a transcription of the stone in Figure 23. Note how the editor substituted a numeral 7 to stand for the centurial sign, shown with an angle bracket shape on the stone.



Figure 25. From Hübner, no. 400, showing branches to separate words.

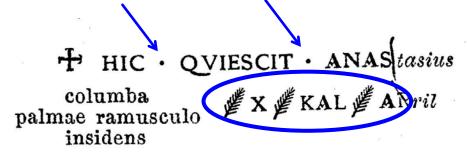


Figure 26. From *Corpus Inscriptionum Latinarum* vol. 14, no. 1953; this inscription shows both interpuncts (printed here with round dots) and ramuli.

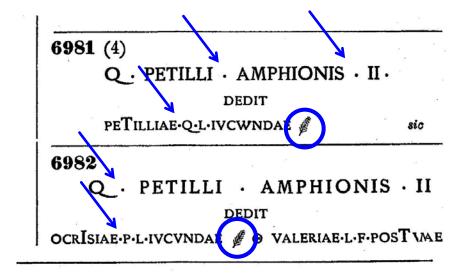


Figure 27. From *Corpus Inscriptionum Latinarum* vol. 6, nos. 6981–6982. These two inscriptions are, according to Hübner, next to each other on a plaque, with the ramulus at the end of the first separating it from the second; this is not well shown in the publication in *CIL*, which uses rules to set off each inscription. Note the use of interpuncts (round dots) together with the ramuli.

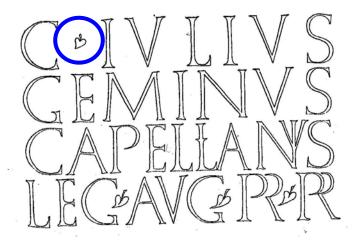


Figure 28. From Hübner, no. 375 with ivy leaves as interpuncts. C°IVLIVS | GEMINVS | CAPELLIANVS | LEG(atus) AVG(usti) PR(o) PR(aetore)

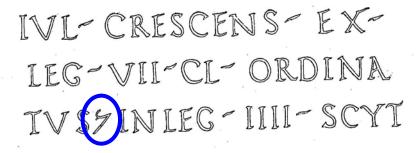


Figure 29. From Hübner, no. 494. Note the centurial sign (circled) in addition to the interpuncts in the form of diagonal lines.